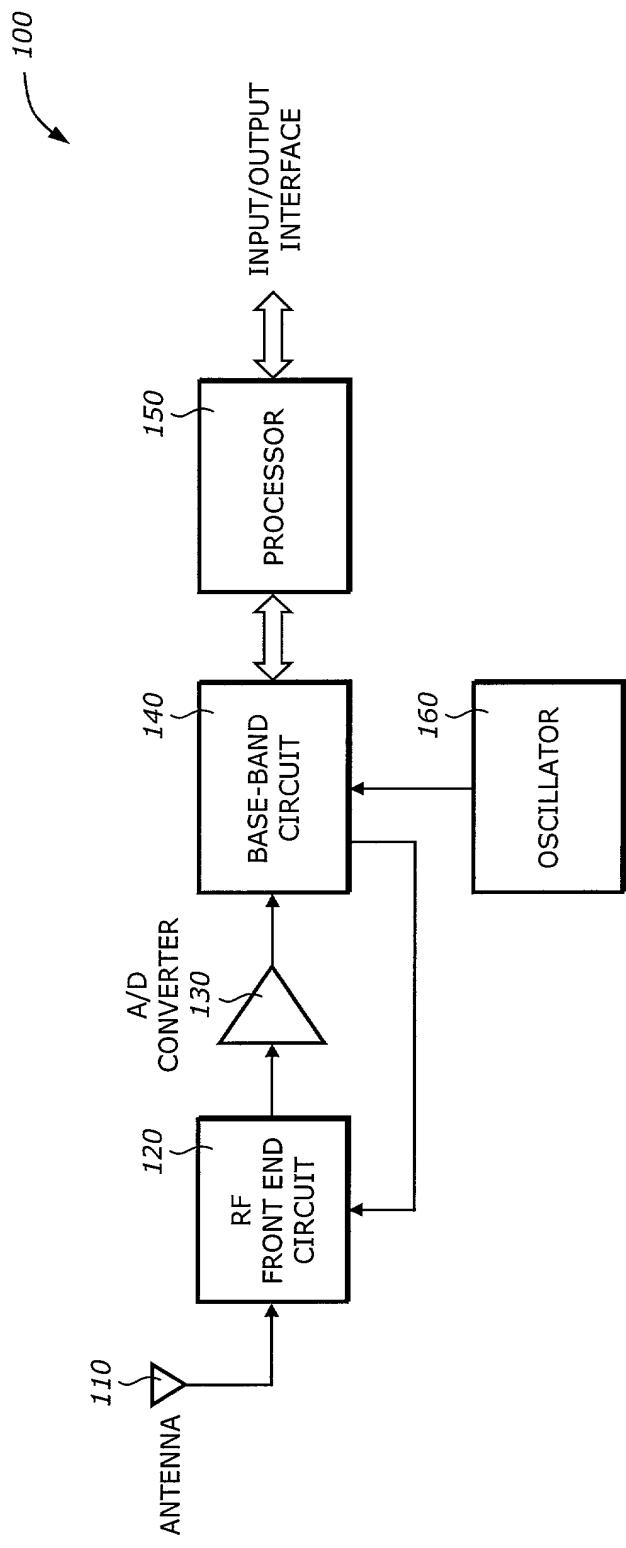


FIG. 1



140
270
24 * f₀ (SAMPLING CLOCK SIGNAL)
160
OSCILLATOR
CLOCK GENERATOR
16 * f₀
8 * f₀
4 * f₀
2 * f₀
OTHER FREQUENCIES
220
230
250
260
INPUT SAMPLE
MULTIPLIER-FREE DEMODULATOR
PASSIVE CORRELATOR
DOPPLER CIRCUIT
EPOCH PROCESSING CIRCUIT
PROCESSOR 150
DEMODULATED SAMPLES
CORRELATION RESULT
MIXER SAMPLES
240
PN CODES
PN GENERATOR AND RE-TRACKING CIRCUIT
PROCESSOR 150
SYSTEM RESET

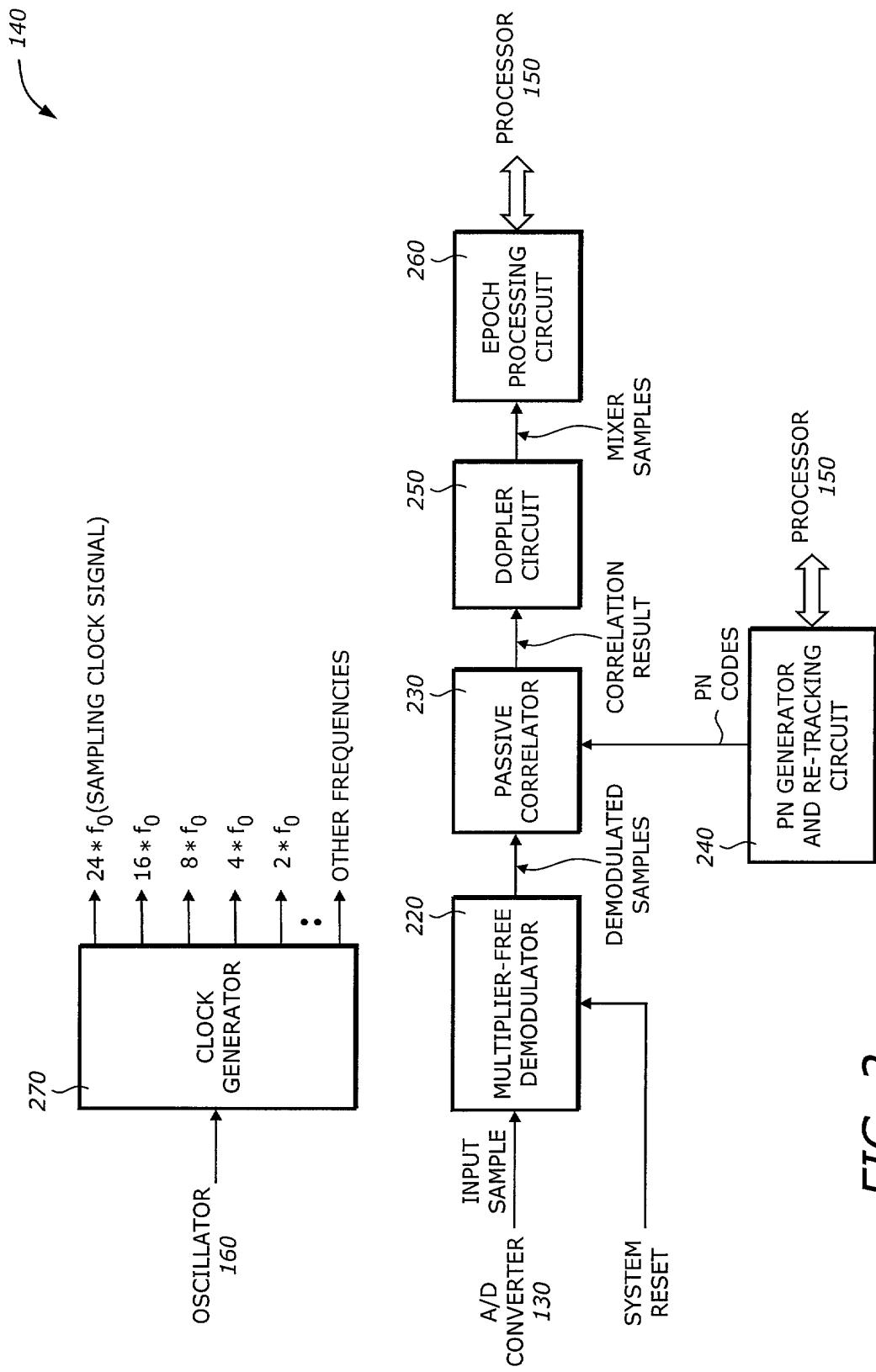


FIG. 2

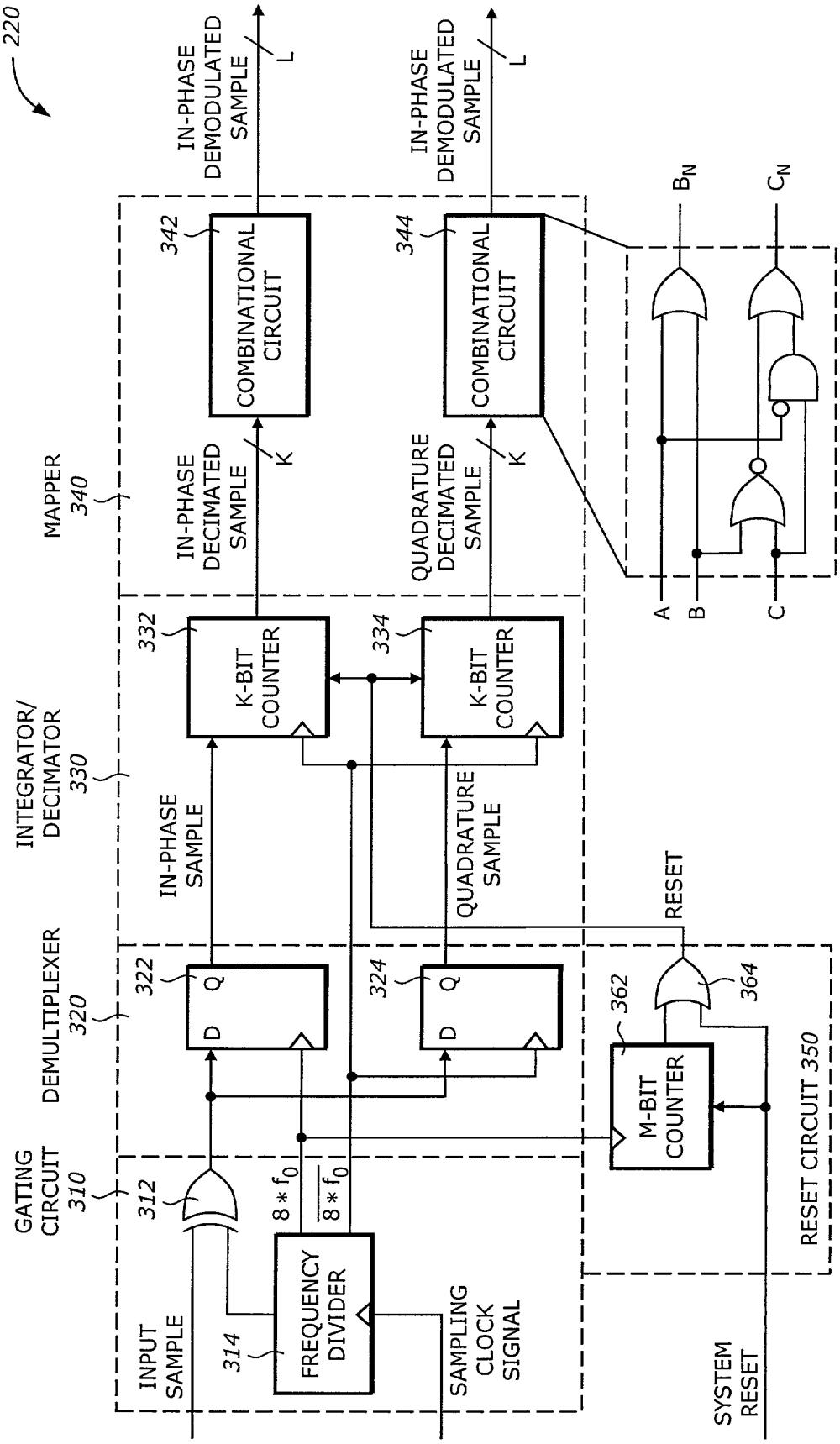


FIG. 3

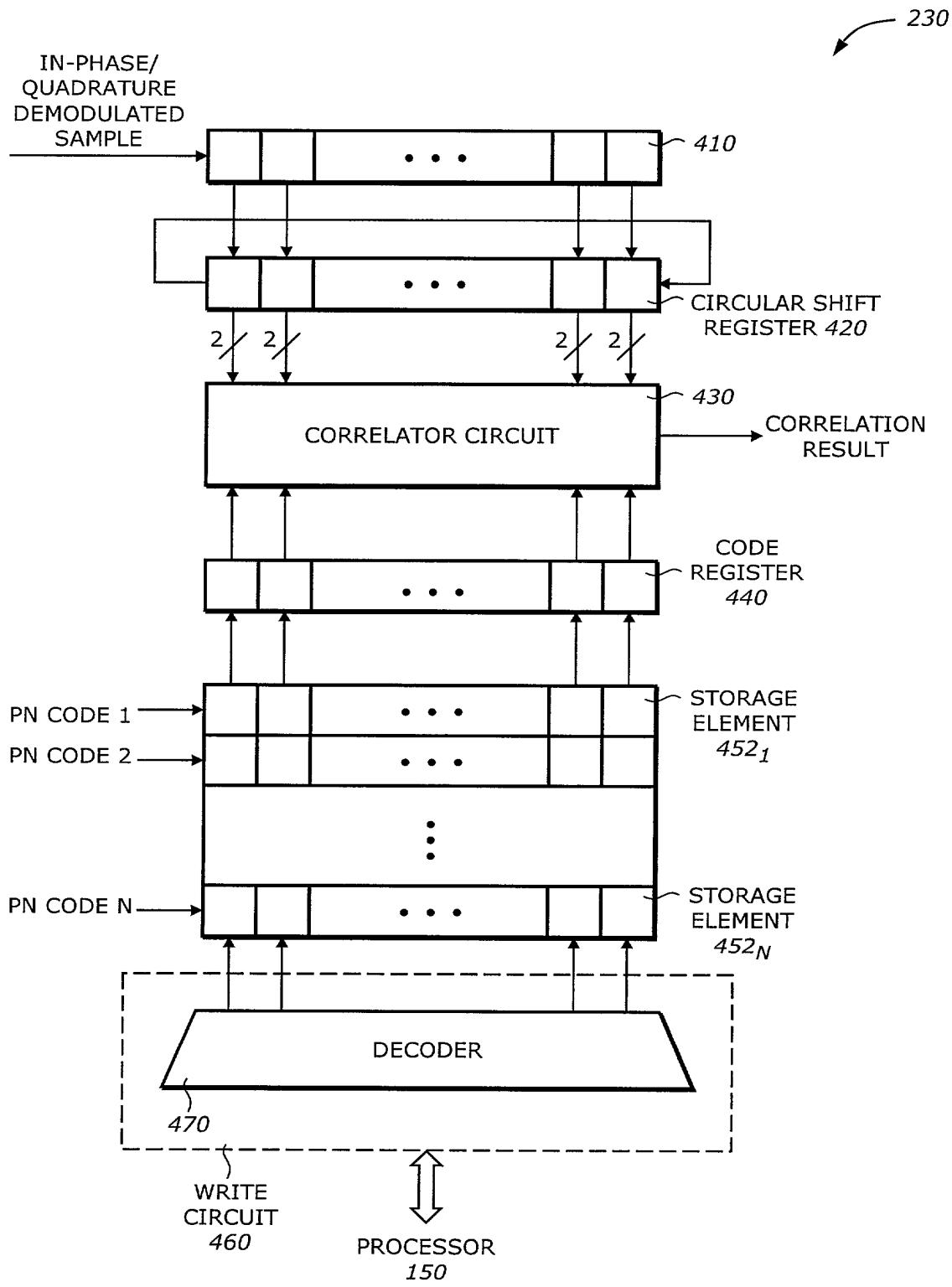
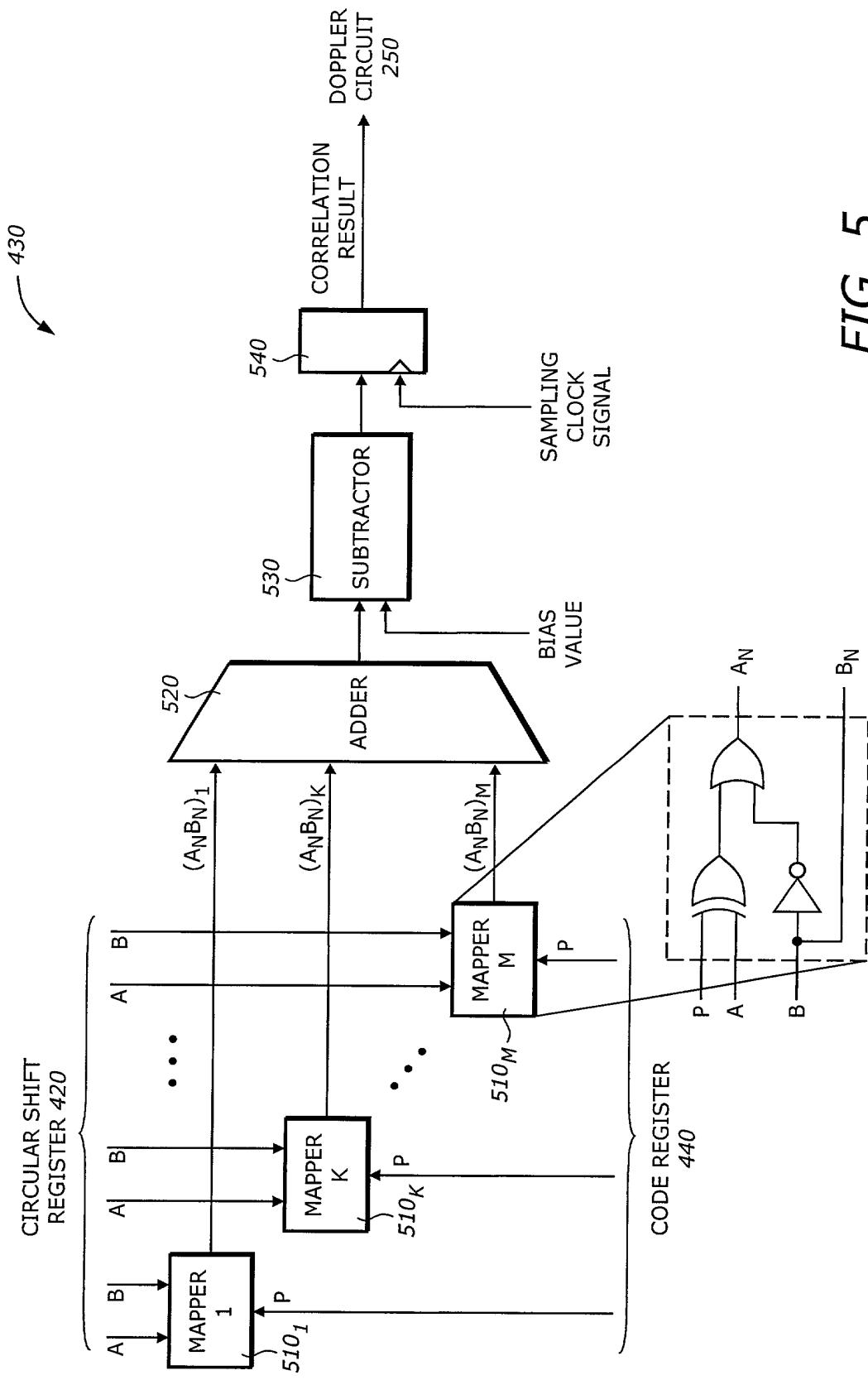


FIG. 4

FIG. 5



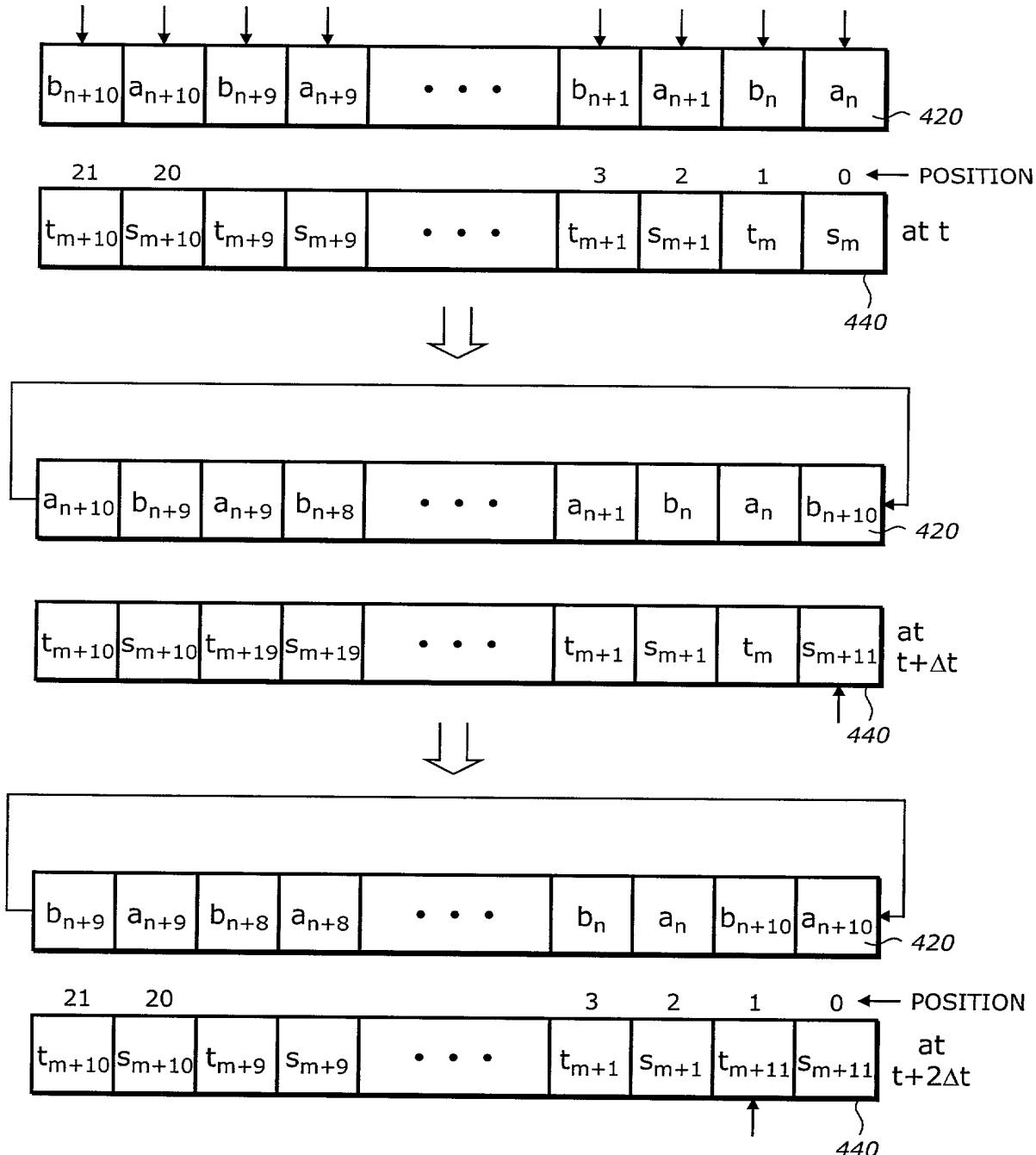


FIG. 6

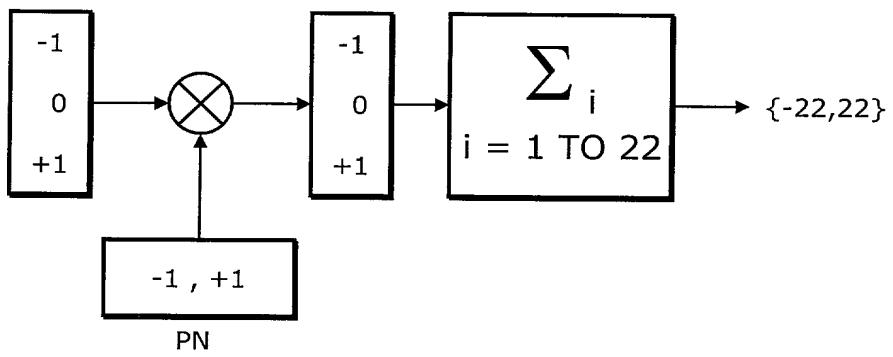


FIG. 7A

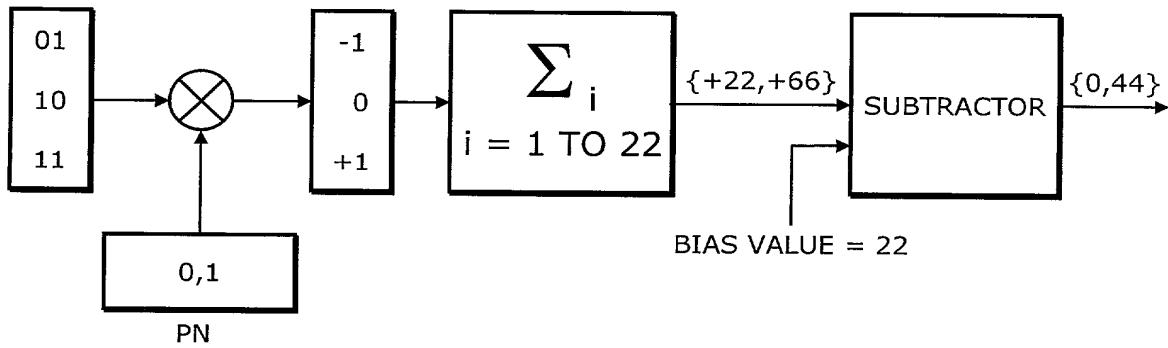


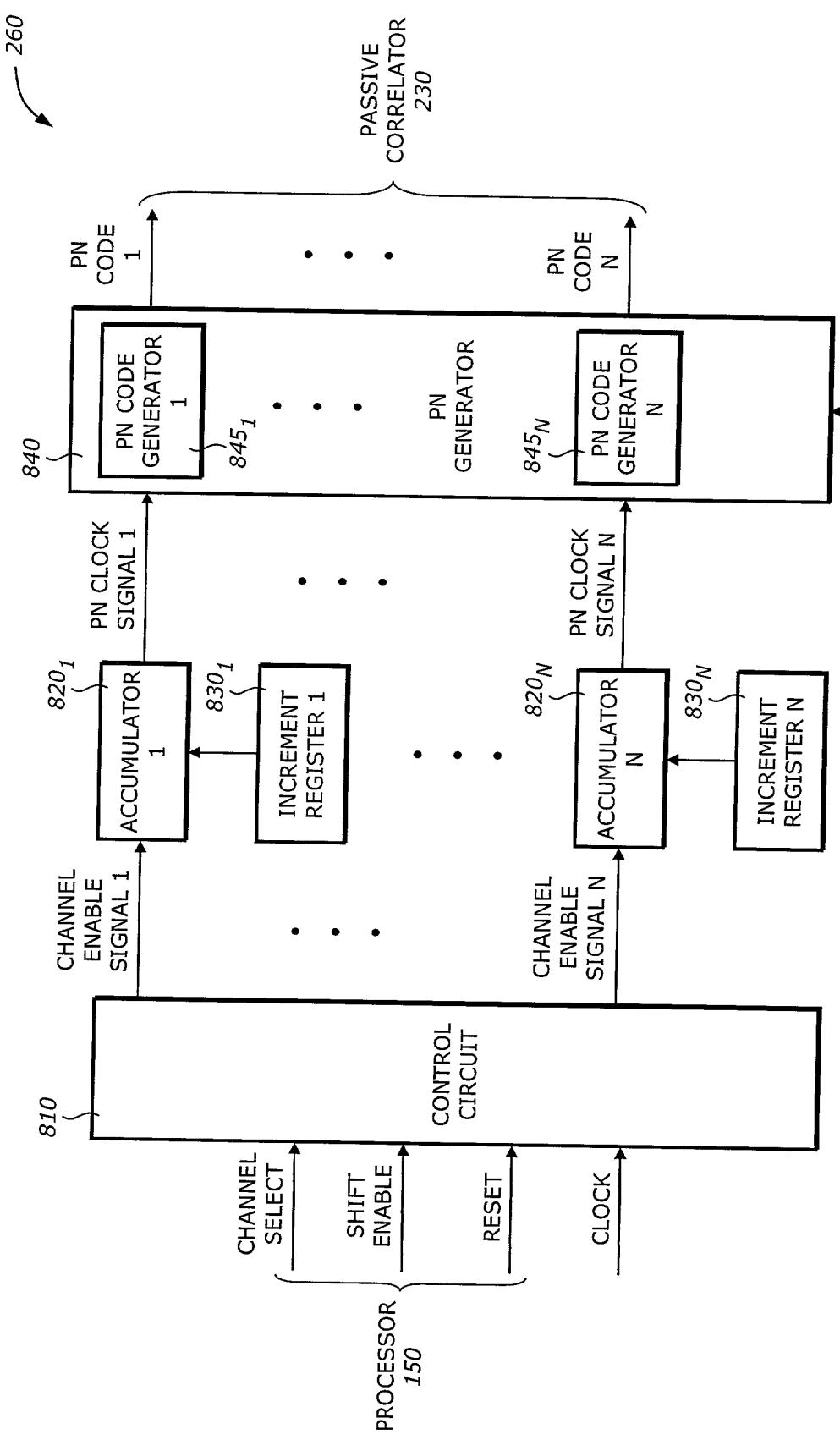
FIG. 7B

PN CODE		
DATA SAMPLES	0	1
	01	01
	10	10
	11	11

FIG. 7C

PASSIVE
CORRELATOR
230

FIG. 8A



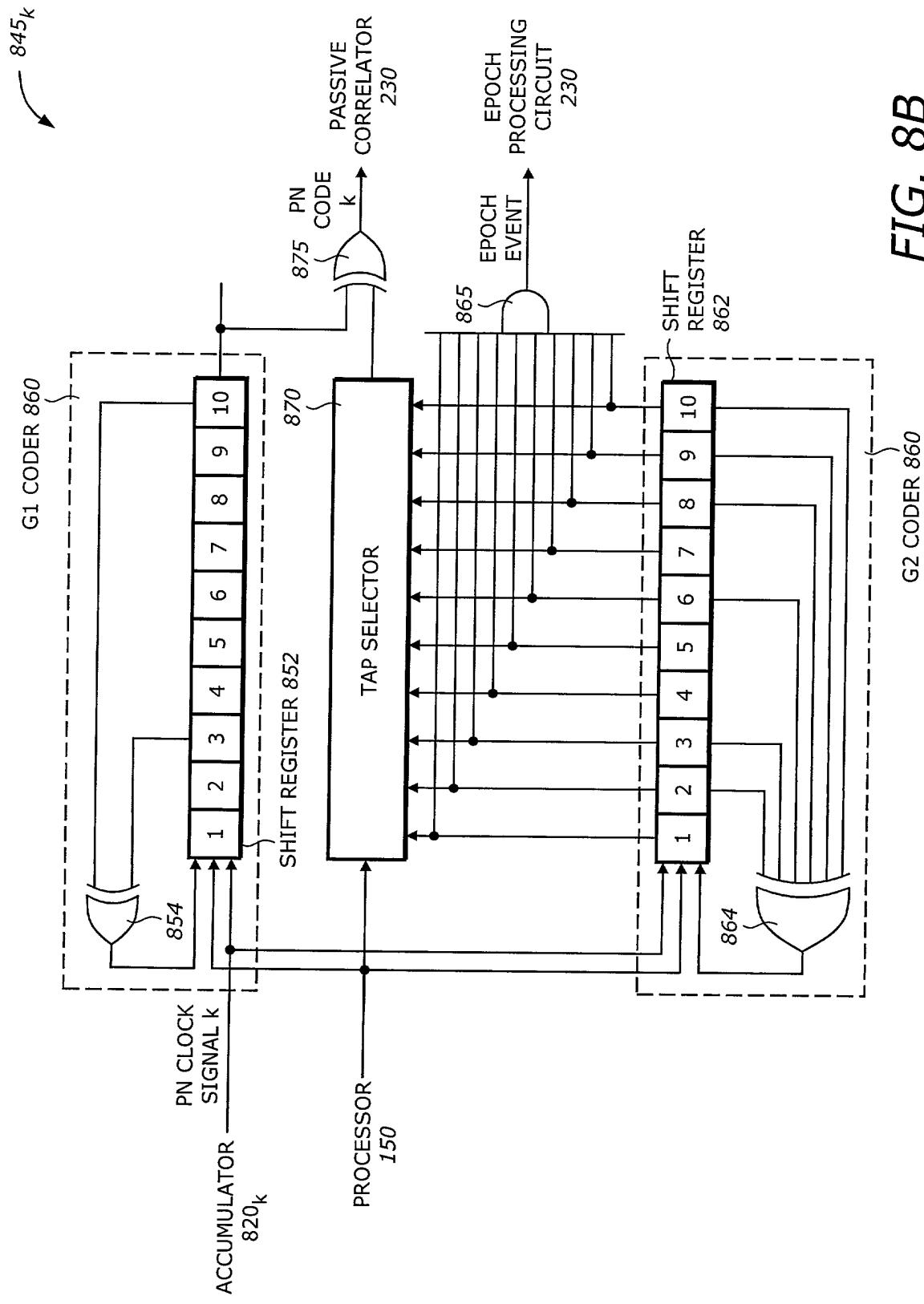


FIG. 8B

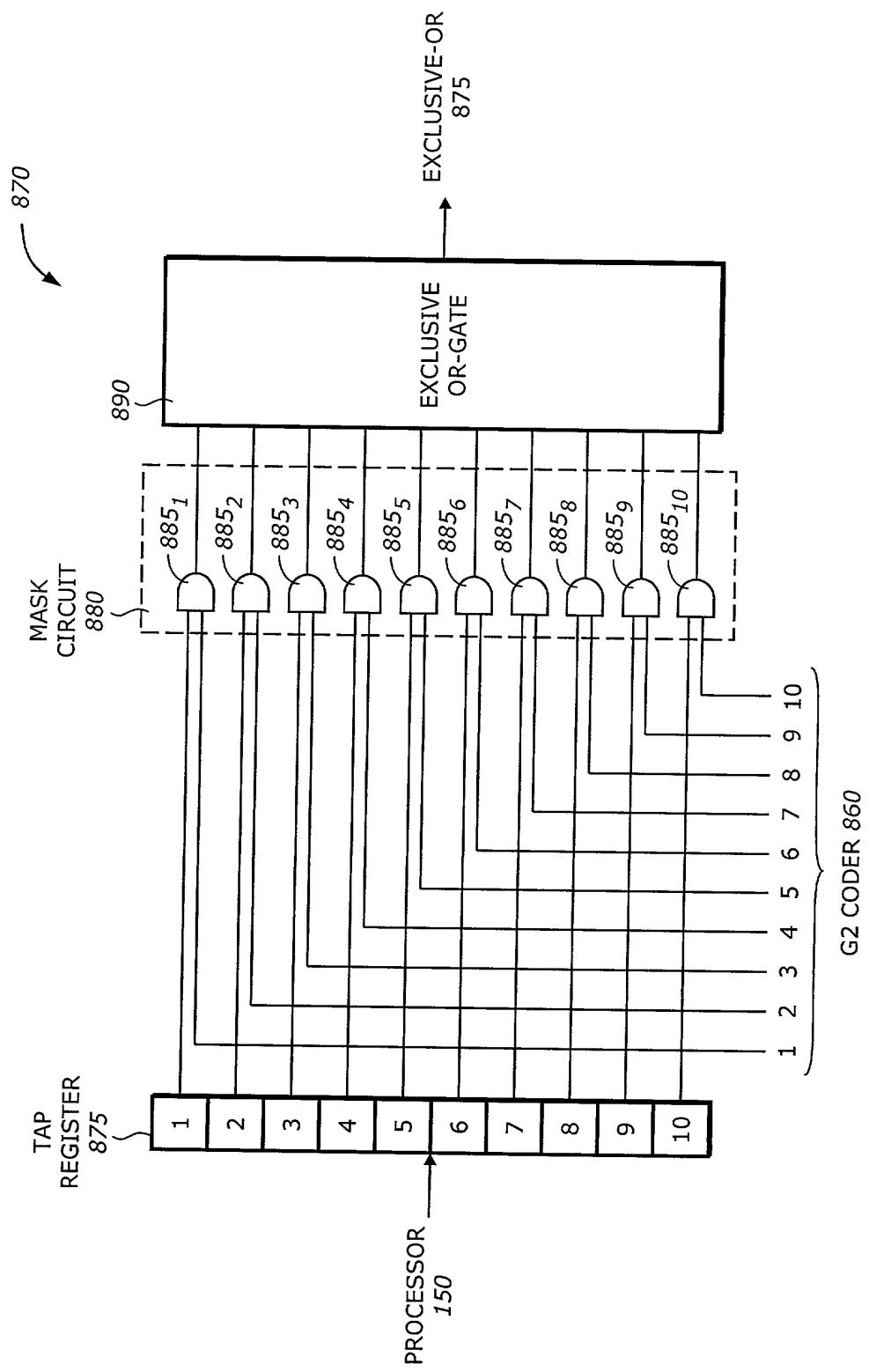


FIG. 8C

FIG. 9

810 →

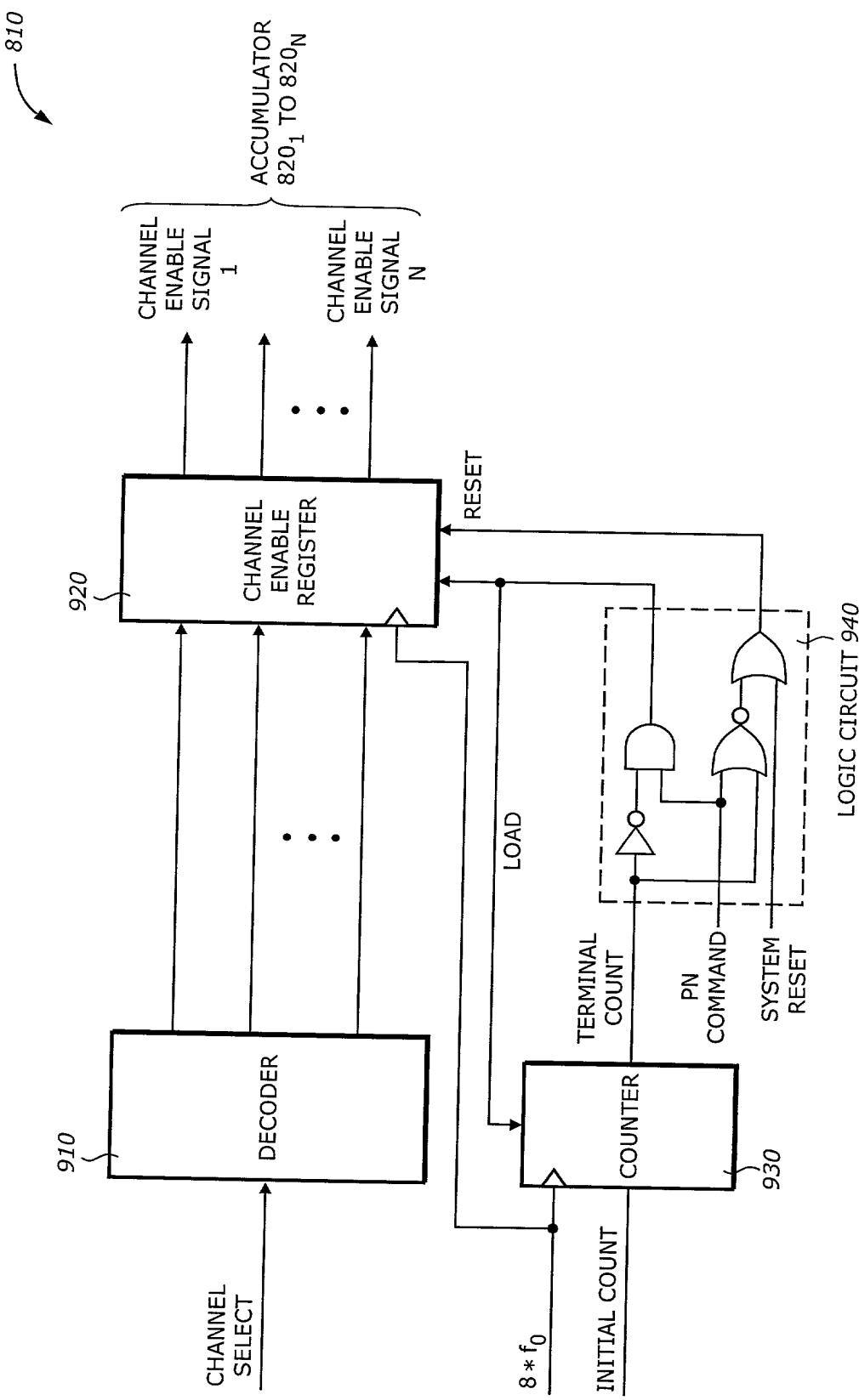
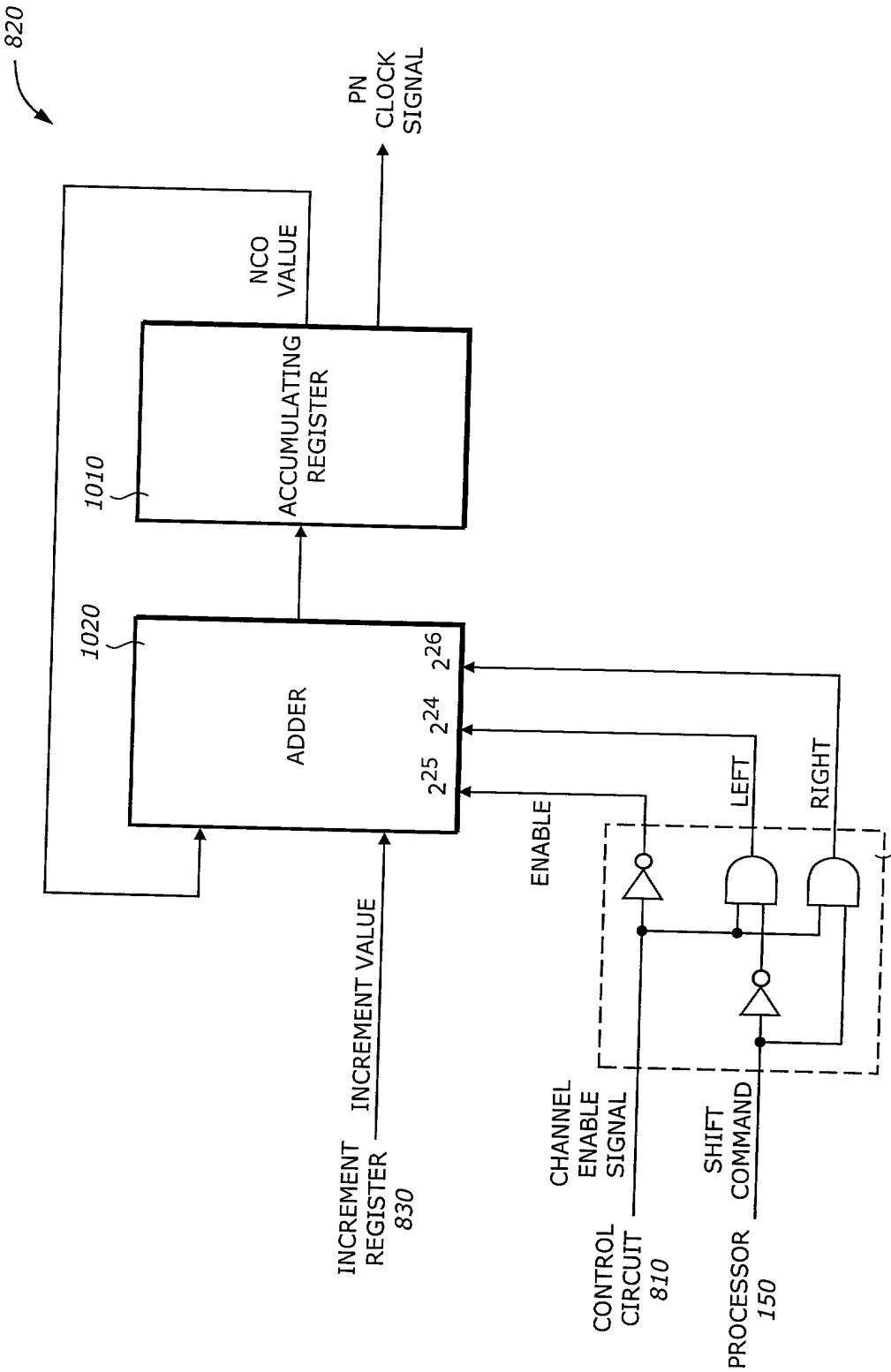


FIG. 10

820
1020 1010
ACCUMULATING REGISTER
NCO VALUE
PN CLOCK SIGNAL
ADDER
225 224 226
INCREMENT REGISTER 830
INCREMENT VALUE
ENABLE
CHANNEL
ENABLE
SIGNAL
SHIFT
COMMAND
PROCESSOR
150
CONTROL CIRCUIT 810
RIGHT
LEFT



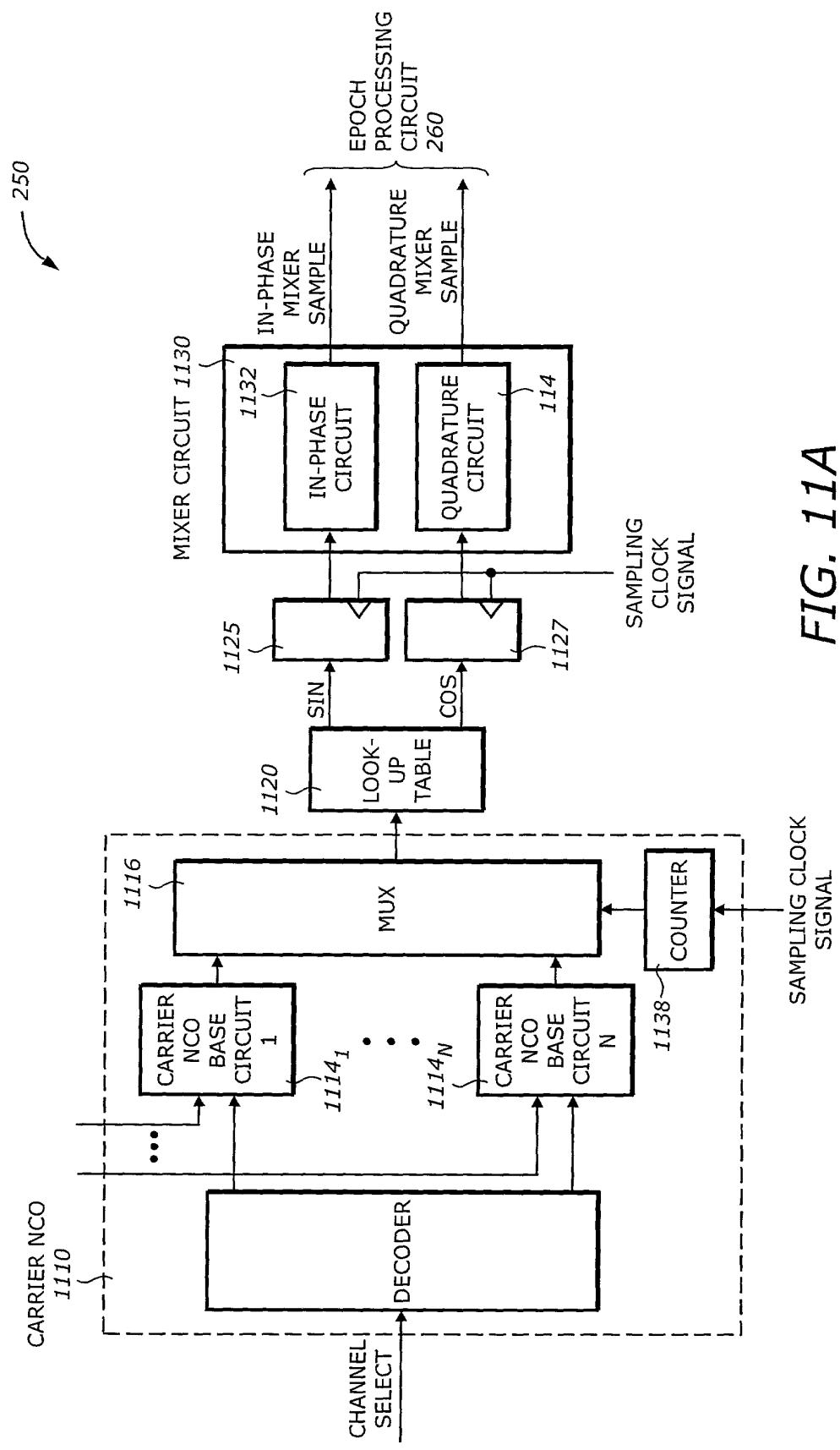


FIG. 11A

SAMPLING CLOCK SIGNAL

FIG. 11B

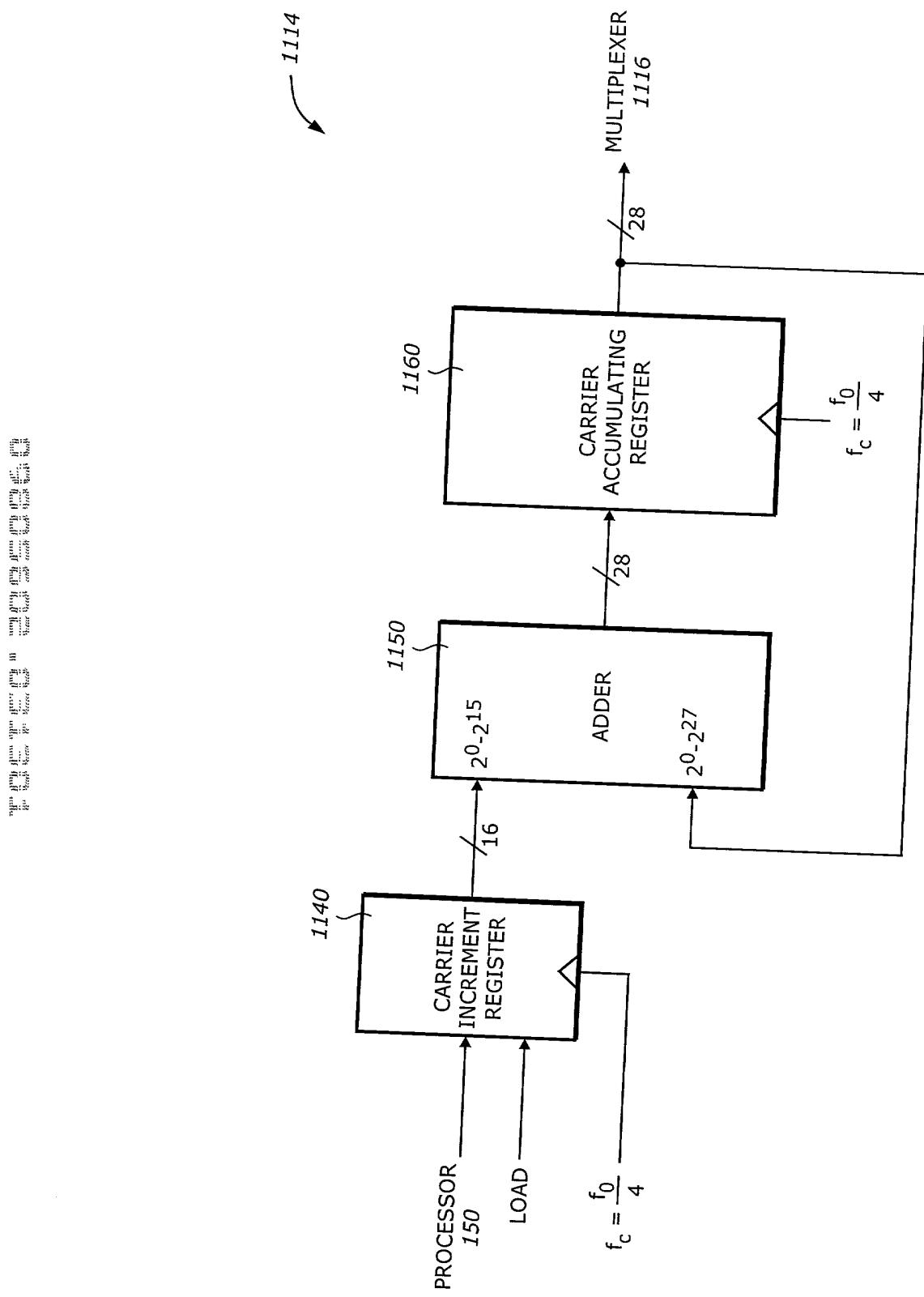


FIG. 12

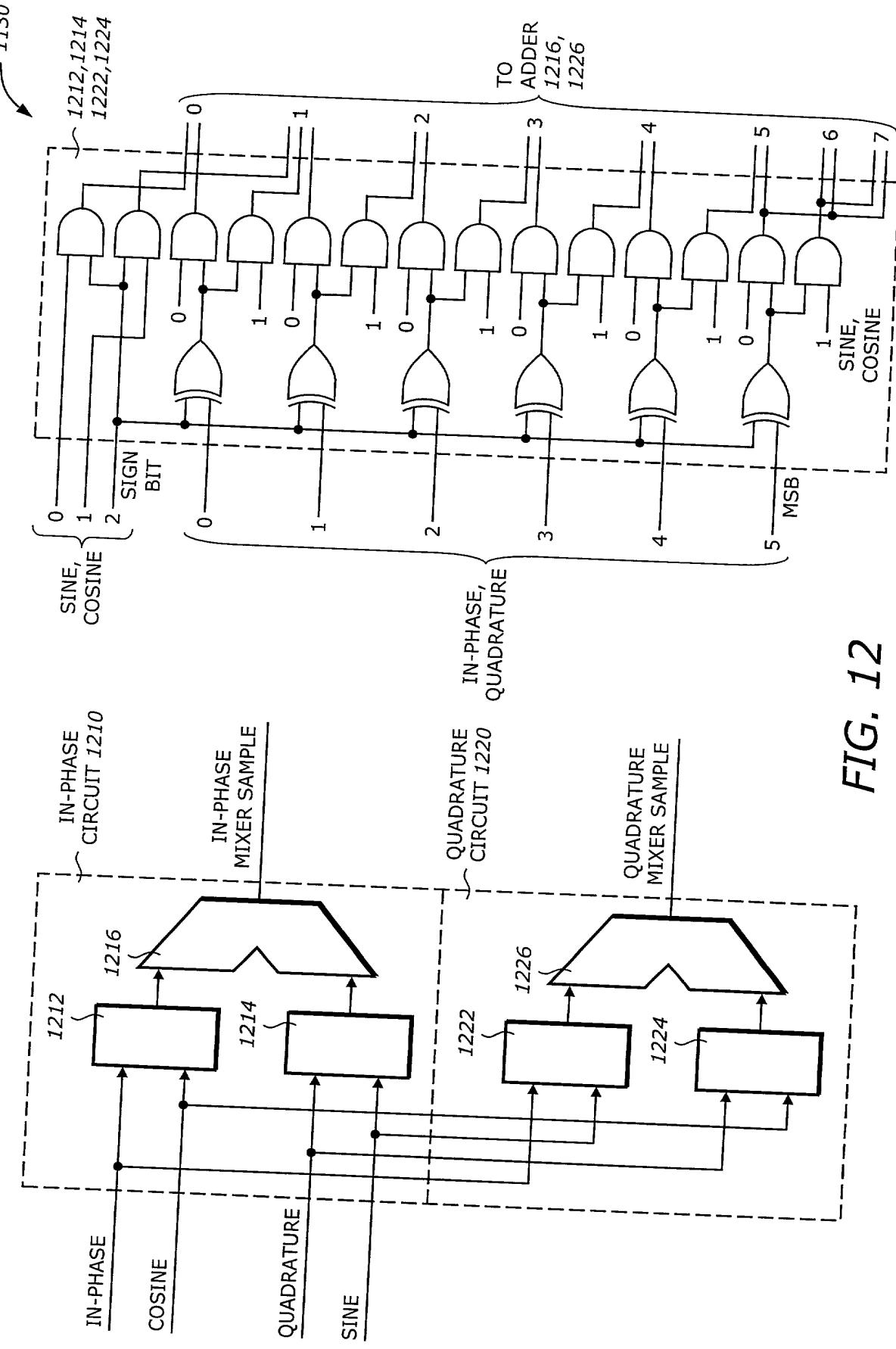
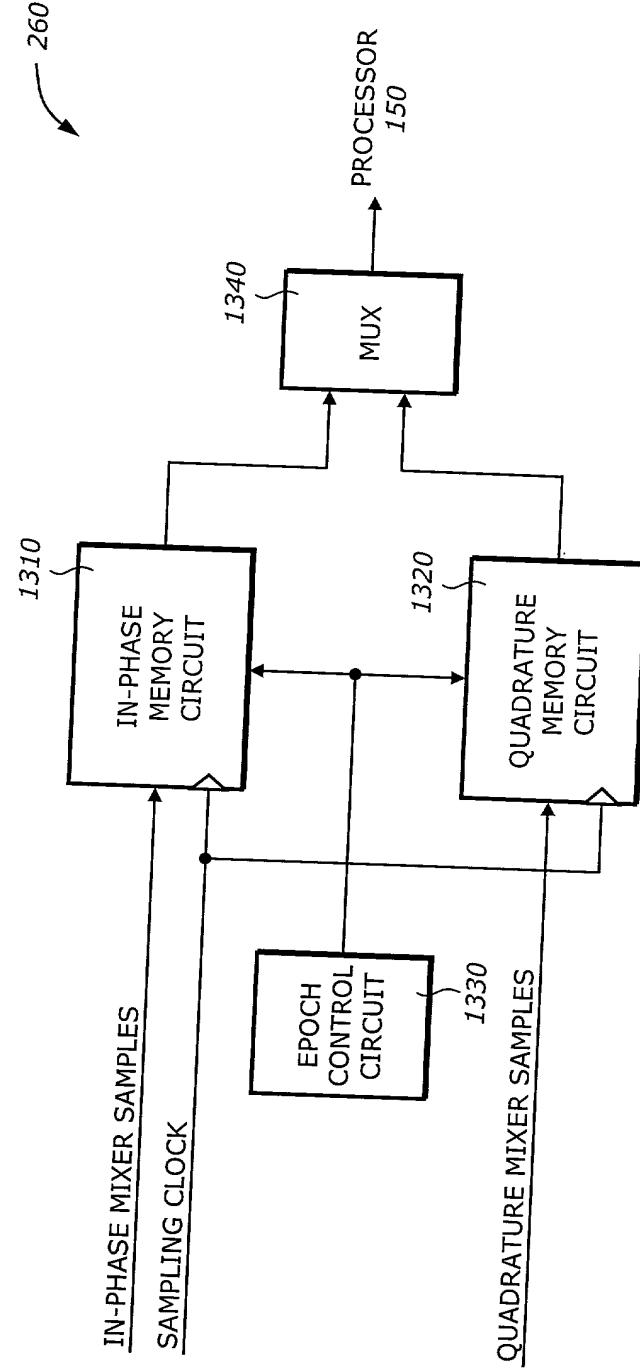


FIG. 13



1310/1320
1330
1420
1425
1430
1435
1440
1445
1450
1455
1460
1465
1470
1475
1480
1485
1490
1495
1500

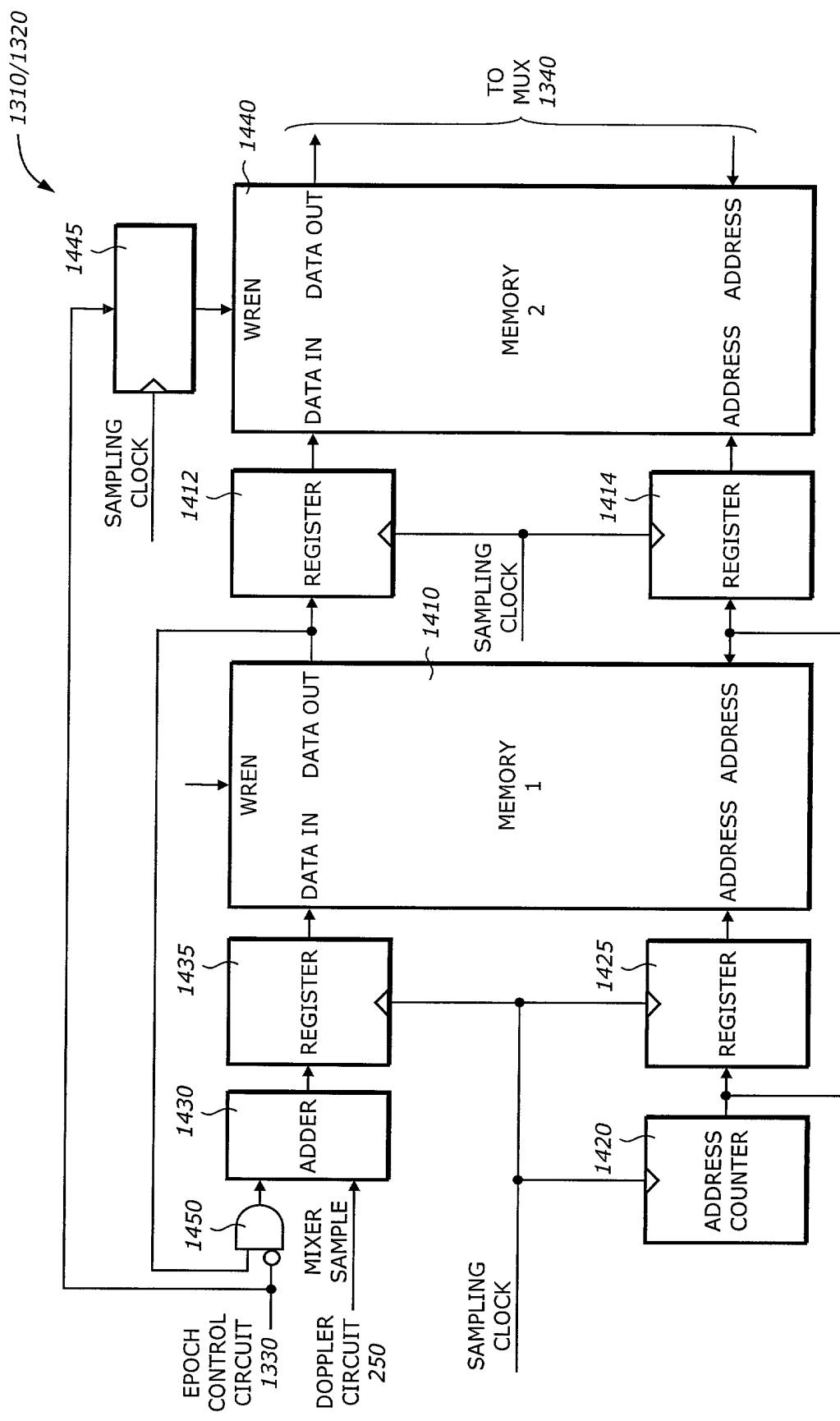


FIG. 14